

Claims

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1. (Twice Amended) A method comprising the step of:
- a) generating a display based on a hypertext mark-up language (HTML) document using a web browser of a user interface of a client device, the display including a document display portion, and index field portion, and a control portion, the document display portion including a display of document data, the index field portion permitting index data to be input to the user interface in association with the document data, and the control portion including at least one control element for generating a start scan signal to initiate scanning of a document with a scanner to generate the document data and a send data signal to transmit the document data with the index data displayed by the web browser from the client device to a server.
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2. (Once Amended) A method as claimed in claim 1, wherein the control portion includes a control element used to alternately generate the start scan signal and the send data signal with respective successive activations of the control element.
3. (Once Amended) A method as claimed in claim 1, wherein the control portion includes at least one control element that can be activated to adjust the scale of the display of the document data.
4. (Once Amended) A method as claimed in claim 3, wherein the control element can be activated to increase the scale of the display of the document data ("zoom in").
5. (Once Amended) A method as claimed in claim 3, wherein the control element can be activated to decrease the scale of the display of the document data ("zoom out").
6. (Once Amended) A method as claimed in claim 3, wherein the control element can be activated to scale the document data to fit within the document display portion of the user interface.

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7. (Once Amended) A method as claimed in claim 3, wherein the control element can be activated to scale the document data for display in the document display portion to the same scale as the scanned document.

8. (Once Amended) A method as claimed in claim 3, wherein the control portion includes a control element to select document data from among a plurality of scanned documents for display on the document display portion of the display.

9. (Twice Amended) A method comprising the steps of:

a) generating a start scan signal using a control element defined by a hypertext mark-up language (HTML) document displayed by a web browser of a user interface of a client device;

b) at the client device, converting the start scan signal into a form compatible with a scanner;

c) transmitting the converted start scan signal from the client device to the scanner;

d) receiving the converted start scan signal at the scanner; and

e) scanning a document with the scanner to generate document data, in response to the converted start scan signal received in said step (d).

10. A method as claimed in claim 9, wherein said step (a) is performed by depressing and releasing a control element of the user interface of the client device using a mouse.

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11. (Once Amended) A method as claimed in claim 9, further comprising the steps of:

f) transmitting the document data from the scanner to the client device;

g) receiving the document data at the client device;

h) at the client device, converting the document data into a form that can be displayed within the web browser of the client device;

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i) generating a display including the scanned document on the web browser of the client device, based on the document data converted in step (h).

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12. (Once Amended) A method as claimed in claim 11, further comprising the step of:

j) adjusting the display of the document data via the user interface.

13. (Once Amended) A method as claimed in claim 12, wherein the adjusting of said step (j) includes increasing the scale of the display of the scanned document ("zooming in") on the user interface.

14. (Once Amended) A method as claimed in claim 12, wherein the adjusting of said step (j) includes decreasing the scale of the display of the scanned document ("zooming out") on the user interface.

15. (Once Amended) A method as claimed in claim 12, wherein the adjusting of said step (j) includes scaling the display of the scanned document to fit within the document display portion of the display of the user interface of the client device.

16. (Once Amended) A method as claimed in claim 12, wherein the adjusting of said step (j) includes generating the display of the scanned document on the user interface of the client device with the same scale as the scanned document.

17. A method as claimed in claim 12, wherein the display is a hypertext mark-up language (HTML) document and the user interface is a web browser.

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18. (Once Amended) A method as claimed in claim 12, further comprising the step of:

k) generating a multiscan mode signal at a user interface of the client device, said steps (e)-(g) repeatedly performed to generate document data for a plurality of documents, based on the multimode scan signal.

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19. (Once Amended) A method as claimed in claim 18, further comprising the steps of:

l) generating a selection signal at the client device indicating at least one of the first, last, next and previous scanned documents for display; and

m) displaying the document data for one of the scanned documents, based on the selection signal generated in said step (l).

20. (Twice Amended) A method as claimed in claim 12, further comprising the steps of:

k) inputting predetermined index data into an index field defined by the HTML document displayed by the web browser of the user interface of the client device;

l) generating a send data signal using the control element defined by the HTML document displayed by the web browser of the user interface of the client device;

m) transmitting the document data and index data from the client device to the server over an internetwork in response to the send data signal generated in said step (l);

n) receiving the document data and index data at the server; and

o) storing the document data in association with the index data in a database of a data storage unit.

21. A method as claimed in claim 20, wherein the index data includes predetermined identification data to identify the document.

22. A method as claimed in claim 20, wherein the document data and the index data are transmitted between the server and client device in hypertext transfer protocol (HTTP).

23. (Once Amended) A method as claimed in claim 20, wherein the start scan signal and the send data signal are input by a user via a common control element of the

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user interface that toggles between a first scan mode for the performance of said step (a) and a second send mode for the performance of said step (m).

24. (Once Amended) A method as claimed in claim 20, wherein the start scan signal is input by a user via a first control element of the user interface for a first scan mode in the performance of said step (a) the send data signal is input by a user via a second control element of the user interface in the performance of said step (m).

25. (Once Amended) A method as claimed in claim 9, further comprising the step of:

e) transmitting the document data from the client device to a server.

26. A method as claimed in claim 9, further comprising the step of:

e) transmitting the document data from the scanner to a server.

27. (Twice Amended) A method comprising the steps of:

a) generating a start scan signal using a control element defined by a hypertext mark-up language (HTML) document displayed by a web browser of a user interface of a client device;

b) at the client device, converting the start scan signal into a form compatible with the scanner;

c) transmitting the converted start scan signal from the client device to a scanner;

d) receiving the converted start scan signal at the scanner;

e) scanning a document with the scanner to generate document data, in response to the converted start scan signal received in said step (d);

f) transmitting the document data from the scanner to the client device;

g) receiving the document data at the client device;

h) at the client device, converting the document data into a form that can be displayed by the web browser of the client device;

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i) generating a display including the scanned document in the HTML document displayed within the web browser of the user interface of the client device, based on the document data converted in said step (h);

j) inputting predetermined index data into a field defined in the HTML document displayed by the web browser of the user interface of the client device, the index data associated with document data displayed by the web browser;

k) generating a send data signal using a control element defined in the HTML document displayed by the web browser of the user interface of the client device;

l) transmitting the document data and index data from the client device to the server over an internetwork in response to the send data signal generated in said step (k);

m) receiving the document data and index data at the server; and

n) storing the document data received in step (m) in association with the index data in a database of a data storage unit.

28. A method as claimed in claim 27, wherein the display is generated in said step (g) based on a hypertext mark-up language (HTML) document.

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29. (Twice Amended) A method as claimed in claim 27, further comprising the step of:

o) adjusting the display of the scanned document via the user interface.

30. (Twice Amended) A method as claimed in claim 29, wherein the adjusting of said step (o) includes increasing the scale of display of the scanned document ("zooming in") on the user interface.

31. (Twice Amended) A method as claimed in claim 29, wherein the adjusting of said step (o) includes decreasing the scale of the display of the scanned document ("zooming out") on the user interface.

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32. (Twice Amended) A method as claimed in claim 29, wherein the adjusting of said step (o) includes scaling the display of the scanned document to fit within the document display portion of the display of the user interface of the client device.

33. (Twice Amended) A method as claimed in claim 29, wherein the adjusting of said step (o) includes generating the display of the scanned document on the user interface of the client device with the same scale as the scanned document.

34. A method as claimed in claim 29, wherein the user interface is a web browser.

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35. (Twice Amended) A method as claimed in claim 29, further comprising the step of:

o) generating a multiscan mode signal from the web browser of the user interface of the client device, said steps (e) - (g) repeatedly performed to generate document data for a plurality of documents, based on the multimode scan signal.

36. (Twice Amended) A method as claimed in claim 29, further comprising the steps of:

o) generating a selection signal within the web browser at the client device indicating at least one of the first, last, next and previous scanned documents for display; and

p) displaying the document data for one of the scanned documents, based on the selection signal generated in said step (a).

37. A method as claimed in claim 29, wherein the index data includes predetermined identification data to identify the document.

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38. (Once Amended) A method as claimed in claim 29, wherein the document data and the index data are transmitted in said step (l) between the server and client device in hypertext transfer protocol (HTTP) format.

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39. (Once Amended) A method as claimed in claim 29, wherein the start scan signal and the send data signal are input by a user via a common control element of the user interface that toggles between a first scan mode for the performance of said step (a) and a second send mode for the performance of step (l).

40. (Once Amended) A method as claimed in claim 29, wherein the start scan signal is input by a user via a first control element of the user interface for a first scan mode in the performance of said step (a), and the send data signal is input by a user via a second control element of the user interface in the performance of said step (l).

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41. (Twice Amended) A system for use with at least one document, the system comprising:

- a client device including
 - a processor;
 - a memory coupled to the processor;
 - an input device coupled to the processor;
 - a display unit coupled to the processor;
- a scanner coupled to the processor; and
- at least one server coupled to the processor,

the processor operating under a predetermined control program stored in the memory to generate a display based on a hypertext mark-up language (HTML) document on the display unit, the display generated by the HTML document including a document display portion, an index field portion, and a control portion, the document display portion displaying document data generated by scanning the document with the scanner, the index field portion permitting index data to be input via the input device for association with the document data, and a control portion including at least one control element for use in generating at least a start scan signal with the input device to initiate scanning of the document with the scanner and for use in generating a send data signal with the input device to transmit the document data with the index data to the server.

42. A system as claimed in claim 41, wherein the control element alternates between generating the start scan signal and the send data signal between successive activations of the control element with the input device.

43. A system as claimed in claim 41, wherein the control element can be used with the input device to adjust the scale of the display of the document data.

44. A system as claimed in claim 41, wherein the control element can be used with the input device to increase the scale of the display of the document data ("zoom in").

45. A system as claimed in claim 41, wherein the control element can be used with the input device to decrease the scale of the display of the document data ("zoom out").

46. A system as claimed in claim 41, wherein the control element can be used with the input device to scale the document data to fit within the document display portion of the user interface.

47. A system as claimed in claim 41, wherein the control element can be used with the input device to scale the document data for display in the document display portion to the same scale as the scanned document.

48. A system as claimed in claim 41, wherein the control element can be used with the input device to select document data from among a plurality of scanned documents for display on the document display portion of the display.

49. (Once Amended) A system as claimed in claim 41, wherein the server receives document data and index data from the client device, the system further comprising:

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a database storage unit coupled to the server, for storing the index data in association with the document data from the processor.

50. (Twice Amended) A system used to scan a document, the system coupled to a network, the system comprising:

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- a client device;
 - a scanner coupled to the client device;
 - a server coupled to the client device via the network; and
 - a database storage unit coupled to the server,

the client device receiving document data generated by the scanner by scanning a document, the client device having a user interface capable of generating a display by execution of an hypertext mark-up language (HTML) document by the client device, the display including a document display portion, an index field portion, and a control portion, the document display portion displaying document data generated by scanning the document with the scanner, the index field portion permitting index data to be input via an input device of the client device for association with the document data, and the control portion including at least one control element for use in generating at least a start scan signal with the input device to initiate scanning of the document with the scanner and for use in generating a send data signal with the input device to transmit the document data with the index data to the server, the server storing the document data and index data in the database storage unit.

51. A system as claimed in claim 50, wherein the network includes an internetwork.

52. A system as claimed in claim 50, wherein the client device includes a personal computer.

53. A system as claimed in claim 50, wherein the user interface includes a web browser in which the document data is displayed.

54. A system as claimed in claim 50, wherein the document data is displayed on the user interface of the client device in a hypertext mark-up language (HTML) document.

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55. (Twice Amended) A system coupled to a network, the system operated by at least one user, the system comprising:

a plurality of subsystems coupled to the network, the subsystems having respective client devices capable of displaying document data included within respective hypertext mark-up language (HTML) documents displayed on corresponding web browsers thereof, at least one of the subsystems including a scanner coupled to a respective client device, the scanner generating the document data by scanning a document based on a first command from a user entered into the browser of the client device coupled to the scanner, the client device receiving the document data from the scanner and generating a display of the document data in the browser thereof, the client device transmitting the document data based on a second command from the user entered into the browser of the client device;

at least one server coupled to the network, the server receiving the document data from the client device; and

a database storage unit coupled to the server, the database storage unit storing the document data so that the subsystems can access the document data.

56. A system as claimed in claim 55, wherein the network includes an internetwork.

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57. (Once Amended) A method comprising the steps of:

a) generating a display including a view of a scanned document with a browser of a client device based on document data derived from a scan of a document;

b) inputting predetermined index data into the browser of the client device;

c) generating a send data signal at the browser of the client device;

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d) transmitting the document data and index data from the client device to the server over an internetwork in response to the send data signal generated in said step

(c);

e) receiving the document data and index data at the server; and

f) storing the document data in association with the index data in a database of a data storage unit.

B¹¹ Abstract entered. T.D.